

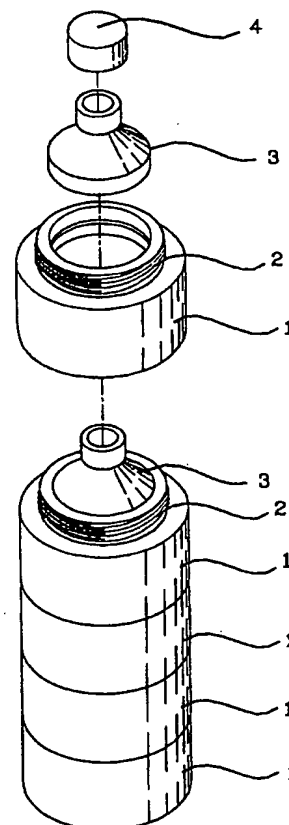
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(21) International Application Number: PCT/KR97/00217 (22) International Filing Date: 7 November 1997 (07.11.97) (30) Priority Data: 1996/40498 16 November 1996 (16.11.96) KR (71)(72) Applicant and Inventor: LEE, Jin, Woo [KR/KR]; 1076-7, Chung-dong, Wonmi-gu, Puchon-city, Kyungki-do 420-020 (KR). (74) Agent: SHIN, Dong, Joon; Dongkyung Building, 10th floor, 824-19, Yeoksam-dong, Kangnam-gu, Seoul 135-080 (KR).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>

(54) Title: CONTAINER FOR POWDERED MILK COMPRISING A PLURALITY OF CONTAINER UNITS**(57) Abstract**

There is provided a container for carrying powdered milk comprising a plurality of unit containers having a screw formed on its upper side, and a cover screw formed on its lower side which a funnel cover is locked into; a plurality of funnel covers, its number being the same as that of the unit containers, and each of them being placed on each of the unit containers; and a first-type cap for capping funnel cover of the unit container placed on the top among the unit containers which are successively connected with each own funnel cover locked thereinto.



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CONTAINER FOR POWDERED MILK COMPRISING A PLURALITY OF CONTAINER UNITS

Technical Field

The present invention relates to a container for carrying powdered milk, and more particularly, to a
5 container for carrying powdered milk comprising a plurality of unit containers which provides the easy selection of any unit containers when feeding, and more simplified connecting order thereby.

Background Art

10 The dried milk for babies is normally in the form of powdered milk, and is supplied being contained in relatively big volume of milk can container. Then, it is taken out by a small amount at a time with spoon to be input into a baby bottle and fed to a baby after
15 being dissolved in warm water. It has no problem in feeding that kind of milk to baby at home however, but it is so difficult to feed it in the place other than home, such as outdoor picnic, or inside a moving car because of its big volume and the inconvenience in
20 carrying the container.

In order to solve the above problems, a container for carrying the powdered milk and comprising a

plurality of unit containers is developed and commercially available, and as shown in Fig. 1, the container for carrying the powdered milk comprises a plurality of unit containers 1 each of which is

5 connected each other by screw 2 formed on the upper side and the lower side thereof ; a funnel cover 3 which can be locked into the screw 2 formed on the unit container 1 so as to make it easy to put milk there inside ; a cap 4 for capping the opening of the

10 upper side of the funnel cover 3 ; and a under lay 5 for being locked into the unit container 1 which is placed on the bottom among the above unit containers 1. A dose of powdered milk is put into each of the above unit containers which are separated, the unit

15 containers 1 are connected all together, a funnel cover 3 is locked into the unit container 1 which is placed on the top in case so that the funnel cover 3 functions to make it easy to put the powdered milk thereinto, a cap 4 is locked into the screw 2 in order

20 to prevent the powdered milk to be loss through the opening placed on the funnel cover 3, and a underlay 5 is locked into the unit container 1 which is placed on the bottom of the container through the screw 2 for easy carrying.

25 When feeding, a dose of powdered milk is easily taken out of the container into a baby bottle by taking the cap 4 off the funnel cover 3 which is

locked into it, and pouring the powdered milk inside the top unit container 1 on which the cover screw is connected into the baby bottle.

When next feeding, the unit container 1 from
5 which the powdered milk thereinside is already taken out as above is separated, and the funnel cover 3 is taken out from the unit container 1 so as to be locked into another unit container 1 having powdered milk which is now put into the baby bottle through the
10 funnel cover 3. By repeating the above procedure, the powdered milk inside the remaining unit containers 1 is consumed one by one from each container 1.

However, the above-described conventional container for carrying powdered milk has a difficulty
15 in feeding in a moving car or outdoor activity because the unit container 1 should be separated on every use of the container, and the locked funnel cover 3 should also be separated from the separated unit container 1 to be locked into the next unit container 1 for the
20 output of the powdered milk thereby resulting in the loss of the powdered milk inside the unlocked unit container 1 while the funnel cover 3 is being locked thereinto. Further, every unit container 1 should be taken off sequentially from top to bottom.

Disclosure of Invention

The present invention is directed to provide a container for carrying powdered milk, wherein each of the unit containers has its own funnel cover locked
5 thereon so that any unit container can be put out regardless of its connecting order in order to easily take out the powdered milk thereinside for feeding.

Another object of the present invention is to provide a container for carrying powdered milk,
10 wherein easy withdrawal of powdered milk from each unit container is possible by forming an extra outlet on its side wall so that it is unnecessary to separate the unit containers for feeding.

To achieve these and other advantages and in
15 accordance with the purpose of the present invention, as embodied and broadly described, there is provided a container for carrying powdered milk comprising :
a plurality of unit containers having a screw formed on its upper side, and a cover screw formed on its
20 lower side which a funnel cover is locked into ; a plurality of funnel covers, its number being the same as that of the unit containers, and each of them being placed on each of the unit containers ; and a first-type cap for capping the funnel cover of the unit
25 container placed on the top among the unit containers which are successively connected with each own funnel

cover locked thereinto.

In addition, a second-type is placed on the unit container having a safe-lock formed thereinside and a sealing packing formed inside the safe-lock.

5 Further, an outlet for powdered milk is formed on each of the unit containers, and an outlet cap is placed on the end of the outlet.

It is to be understood that both the foregoing general description and the following detailed
10 description are exemplary and explanatory and are intended to provide further explanation of the invention as claimed.

Brief Description of the Drawings

In the accompanying drawings :

15 Fig. 1 is an exploded perspective view showing the conventional container for carrying powdered milk briefly;

Fig. 2 is a cross-sectional view showing a unit container of the container shown in Fig. 1 ;

20 Fig. 3 is a brief exploded perspective view showing the container for carrying powdered milk according to one embodiment of the present invention ;

Fig. 4 is a cross-sectional view showing a unit container among the container shown in Fig. 3 ;

Fig. 5 is a cross-sectional view showing a second-type cap of the container in Fig. 3 according to one embodiment of the present invention ;

Fig. 6 is a brief exploded perspective view
5 showing the container for carrying powdered milk according to one embodiment of the present invention ; and

Fig. 7 is a cross-sectional view showing a unit container of the container for carrying powdered milk
10 in Fig. 6.

Best Mode for Carrying out the Invention

Reference will now be made in detail to the preferred embodiments of the present invention, examples of which are illustrated in the accompanying
15 drawings.

As shown in Fig. 3, the container for carrying powdered milk is constructed such that a plurality of unit containers, a unit container comprising a funnel cover 3 and a unit container 1, which are locked
20 together, are connected successively. Among the plurality of unit containers, any one can be taken out regardless of their connecting order so that one dose of powdered milk inside the unit container 1 can be put into a baby bottle for feeding.

That is, substituting the conventional container for carrying powdered milk comprises a plurality of unit containers 1, which are successively connected with locked each other, and wherein one unit container

5 has a screw 2 on its upper side, a funnel cover 3 is placed on the top unit container 1, a first-type cap 4 is locked on the funnel cover 3, and a under lay 5 is placed on the bottom unit container 1 as shown in Fig. 1, the container for carrying out powdered milk

10 according to the present invention is characteristically constructed such that the unit container 1 has a screw 2 and a cover screw 6 on its upper and its lower side respectively, wherein the cover screw 6 is locked on the funnel cover 3 on the

15 next unit container 1. As a result, using the same number of unit containers 1 and funnel covers 3, they are repeatedly connected with a unit container 1 and a funnel cover 3 as one unit. The unit containers 1 are successively locked from the top to the bottom. As

20 shown in Fig. 4, the unit container 1 has a screw 2 on its upper side and a cover screw 6 on its lower side unlike the conventional one having a screw 2 on its upper side and its lower side, and therefore, one unit container can be locked to the next one by the cover

25 screw 6 successively.

Therefore, all unit containers 1 having one dose of powdered milk have their own funnel cover 3 locked

thereon so that when feeding, only the funnel cover 3 placed on the relevant unit container is separated in order to put out the powdered milk therein.

Further, a first-type cap 4 is locked on the
5 funnel cover 3 locked on the unit container 1 on the top, and the powdered milk inside the unit container 1 is put out with the first-type cap 4 taken off.

Preferably, a second-type cap 7 as shown in Fig.
5 can be used instead of the first-type cap 4 as
10 described above, and the second-type cap 7 has a safe lock 8 and a sealing packing 9 inside the safe lock 8.

The second-type cap 7 is, with ease and lock, put on the funnel cover 3 which is locked on the unit container 1 placed on the top.

15 Further, as shown in Fig. 6 and 7, an outlet 10 is formed on the side wall of each unit container 1 such that the powdered milk inside each unit container 1 is put out through the outlet 10. As a result, the powdered milk inside the unit container 1 can be
20 easily put out without the separation of the funnel cover 3 locked on the corresponding unit container 1.

The outlet 10 is open/closed with an outlet cap 11, which is so apparent to be understood.

Industrial Applicability

25 Therefore, the present invention provides the

easy selection of any unit containers which are locked connected together, and the simplicity of their connecting order thereby allowing to easily feed powdered milk for baby at any time and at any place
5 such as outside or moving cars.

It will be apparent to those skilled in the art that various modifications and variations of the present invention can be made without departing from the spirit or scope of the invention. Thus, it is
10 intended that the present invention cover the modifications and variations of this invention provided they come within the scope of the appended claims and their equivalents.

What is claimed is :

1. A container for carrying powdered milk
comprising:

5 a plurality of unit containers having a screw
formed on its upper side, and a cover screw formed on
its lower side which a funnel cover is locked into ;

a plurality of funnel covers, its number being
the same as that of said unit containers, and each of
them being placed on each of said unit containers ;

10 and

a first-type cap for capping said funnel cover of
said unit container placed on the top among said unit
containers which are successively connected with each
own funnel cover locked thereinto.

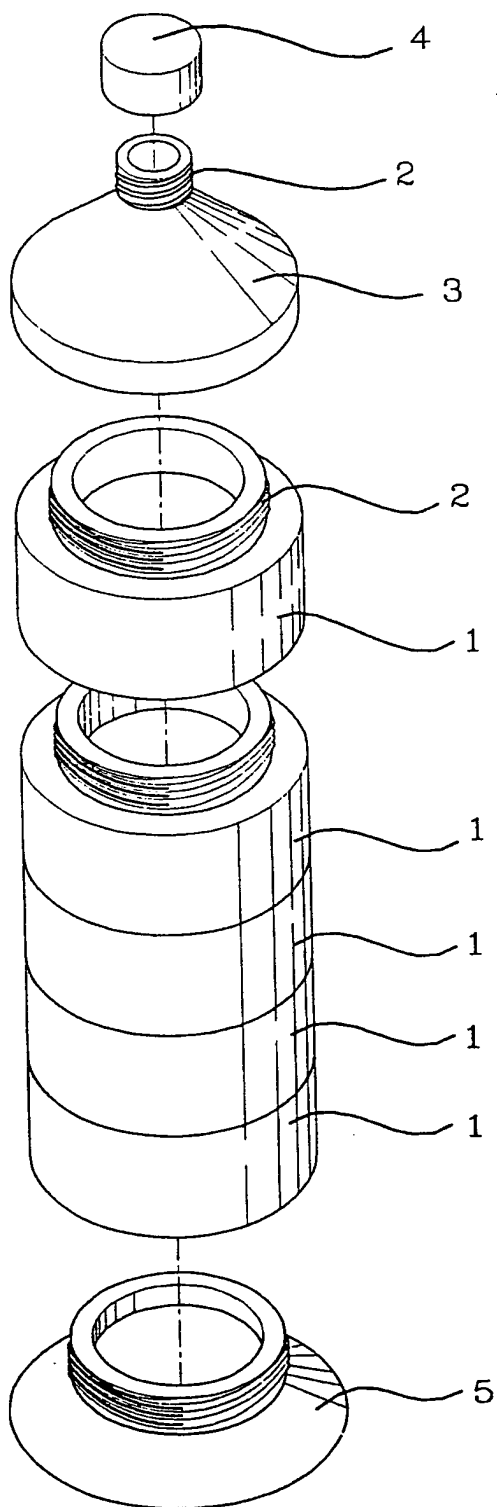
15 2: The container for carrying powdered milk as
claimed in claim 1, wherein a second-type cap is
placed on said unit container having a safe-lock
formed thereinside and a sealing packing formed inside
said safe-lock.

20 3. The container for carrying powdered milk as
claimed in claim 1, wherein an outlet for powdered
milk is formed on each of said unit containers, and an
outlet cap is placed on the end of said outlet.

4. The container for carrying powdered milk as claimed in claim 2, wherein an outlet for powdered milk is formed on each of said unit containers, and an outlet cap is placed on the end of said outlet.

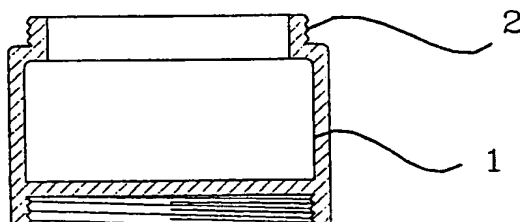
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FIG. 1
(PRIOR ART)



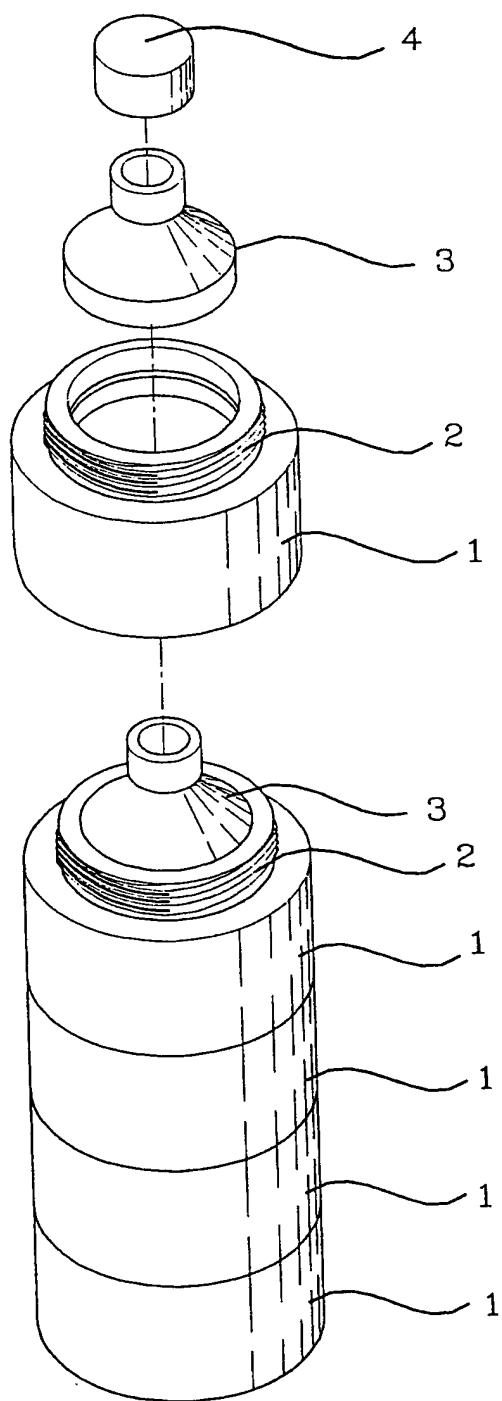
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FIG. 2
(PRIOR ART)



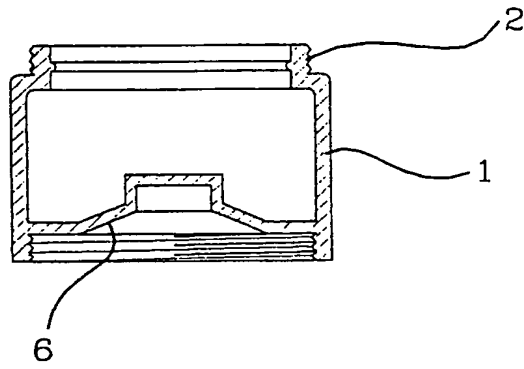
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FIG. 3



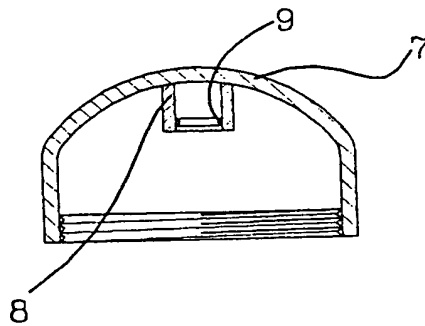
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FIG. 4



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FIG. 5



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FIG. 6

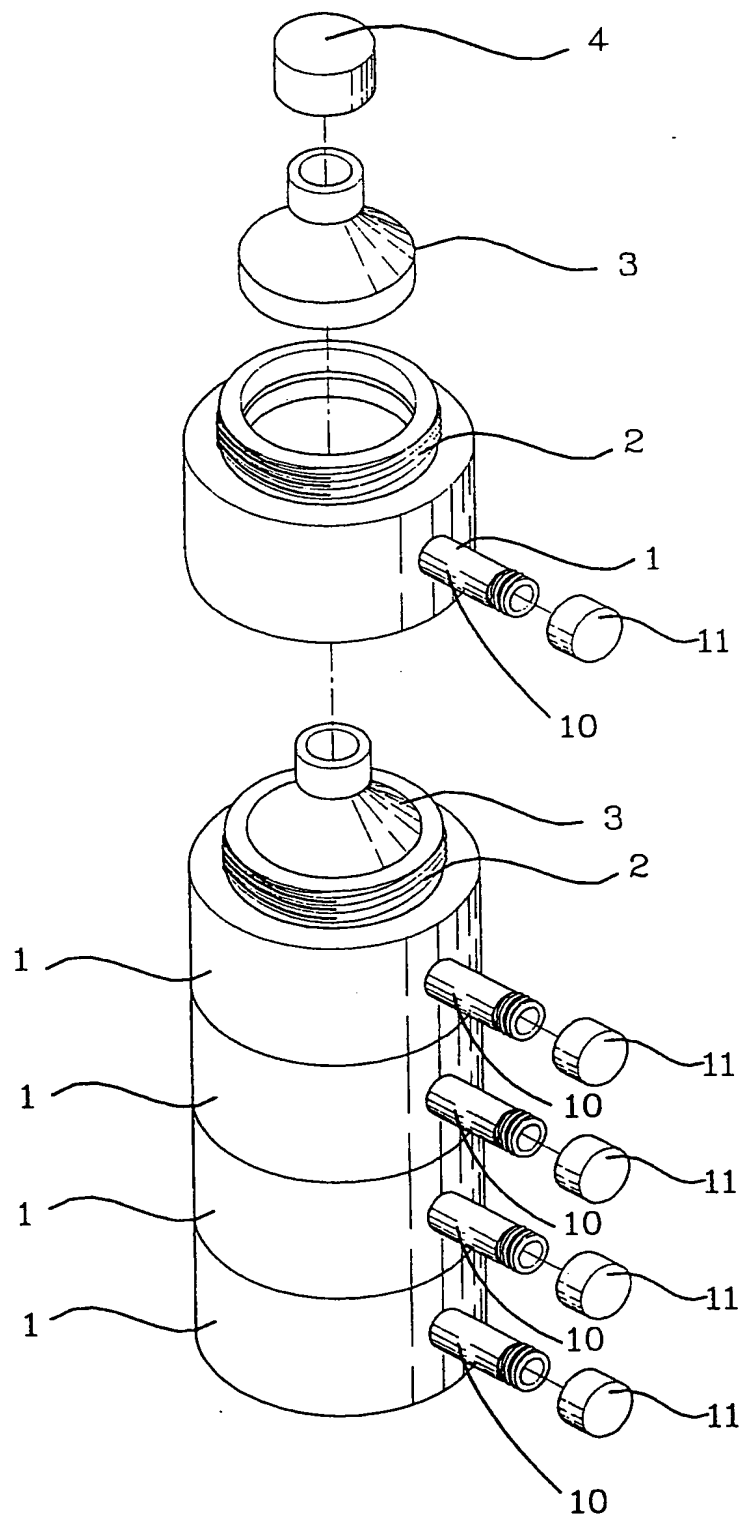
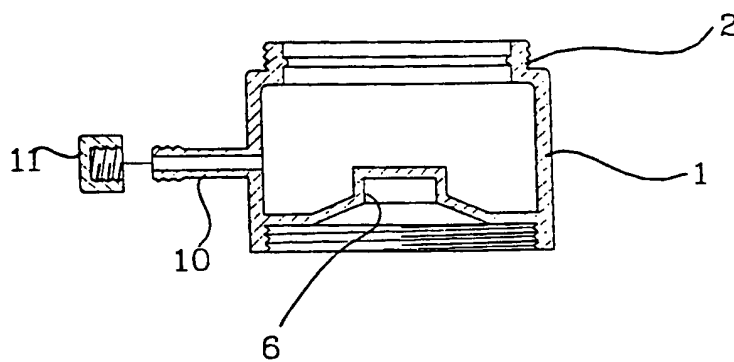


FIG. 7



INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR 97/00217

A. CLASSIFICATION OF SUBJECT MATTER

IPC⁶: B 65 D 21/02, 1/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

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IPC⁶: B 65 D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FR 2 684 072 A1 (CONDERC) 28 May 1993 (28.05.93), fig.1-3.	1
A	DE 29 04 478 A1 (BURCKHARDT) 21 August 1980 (21.08.80), fig.1-5.	1,2
A	US 769 615 A (KOSANSVICH) 06 September 1904 (06.09.04), totality.	1,2
A	US 4 141 477 A (HENGESBACH) 27 February 1979 (27.02.79), fig.1-5.	3



Further documents are listed in the continuation of Box C.



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Date of the actual completion of the international search

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FR A1 2684072	28-05-93	FR B1 2684072	10-02-95
DE A1 2904478	21-08-80	keine - none - rien	
US A 769615		keine - none - rien	
US A 4141477	27-02-79	keine - none - rien	